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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/663,262	09/16/2003	Hsu-Pin Kao	TLC 03.01	1452

32047 7590 05/12/2005

GROSSMAN, TUCKER, PERREAULT & PFLEGER, PLLC  
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MANCHESTER, NH 03101

EXAMINER
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RAABE, CHRISTOPHER M

ART UNIT	PAPER NUMBER
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2879

DATE MAILED: 05/12/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/663,262	KAO ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Christopher M. Raabe	2879	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on 16 September 2003 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |                                                                                         |                                                                             |
|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)             | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. ____                                                 |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date ____                                                              | 6) <input type="checkbox"/> Other: ____                                     |

## **DETAILED ACTION**

### ***Drawings***

1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: "pixel pitch **40**" (paragraph 22, line 5). For the purpose of examining appropriate claims, "pixel pitch" will be taken to be a dimension of the "luminant cell" measured along a line perpendicular to the "cell pitch," parallel to the substrates. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

### ***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Nunomura et al. (U.S. Patent 6348762).

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With regard to claim 1,

Nunomura et al. disclose a transparent electrode (12,13 of fig 11) structure for a plasma display panel with a plurality of luminant units (17 of fig 11) between up and down substrates, wherein a comb electrode (4 of fig 11) has a main line across said luminant (should read "luminant") units and a plurality of branches (4a of fig 11) perpendicularly extending from said main line and located between said luminant units, said transparent electrode structure comprising: a plurality of bodies, wherein each of said bodies is located between two corresponding adjacent branches and said main line (3 of fig 11); and a plurality of connecting parts respectively located on two sides of said bodies, wherein each of said bodies is connected to two corresponding adjacent branches through two corresponding connecting parts (3d of fig 11).

With regard to claim 2,

Nunomura et al. disclose the transparent electrode structure, wherein each of said bodies protrudes into the discharging center in a luminant (should read "luminant") unit (3 of fig 11).

With regard to claim 3,

Nunomura et al. disclose the transparent electrode structure, wherein a distance between the two bodies located in a luminant (should read "luminant") unit is maintained (11 of fig 11).

With regard to claim 4,

Nunomura et al. disclose the transparent electrode structure, wherein indium-tin-oxide is used to form said bodies and said connecting parts (column 8, lines 41-42).

With regard to claim 5,

Nunomura et al. disclose the transparent electrode structure, wherein a hollow region exists between the transparent electrode and the comb electrode in each luminant unit (3,4 of fig 11).

With regard to claim 6,

Nunomura et al. disclose the transparent electrode structure, wherein each of said bodies is rectangular in configuration (3 of fig 11).

With regard to claim 7,

Nunomura et al. disclose the transparent electrode structure, wherein a width of each body is about 20% to 60% of a cell pitch thereof (3,14 of fig 11).

With regard to claim 8,

Nunomura et al. disclose the transparent electrode structure, wherein a thickness of each body is about 5% to 30% of a pixel pitch thereof (3 of figs 11,16a and dashed lines of fig 16a).

With regard to claim 9,

Nunomura et al. disclose a transparent electrode (12,13 of fig 11) structure for a plasma display panel with a plurality of luminant units (17 of fig 11) between up and down substrates,

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wherein a comb electrode (4 of fig 11) has a main line across said ruminant (should read "luminant") units and a plurality of branches (4a of fig 11) perpendicularly extending from said main line and located between said luminant units, said transparent electrode structure comprising: a plurality of bodies, wherein each of said bodies is located between two corresponding adjacent branches and said main line (3 of fig 11); and a plurality of connecting parts respectively located on two sides of said bodies, wherein each of said bodies is connected to two corresponding adjacent branches through two corresponding connecting parts and protrudes into a discharging center in a ruminant (should read "luminant") unit (3d of fig 11).

With regard to claim 10,

Nunomura et al. disclose the transparent electrode structure, wherein indium-tin-oxide is used to form said bodies and said connecting parts (column 8, lines 41-42).

With regard to claim 11,

Nunomura et al. disclose the transparent electrode structure, wherein a hollow region exists between the transparent electrode and the comb electrode in each ruminant (should read "luminant") unit (3,4 of fig 11).

With regard to claim 12,

Nunomura et al. disclose the transparent electrode structure, wherein each of said bodies is rectangular in configuration (3 of fig 11).

With regard to claim 13,

Nunomura et al. disclose the transparent electrode structure according to claim 9, wherein a width of each body is about 20% to 60% of a cell pitch thereof (3, 14 of fig 11).

With regard to claim 14,

Nunomura et al. disclose the transparent electrode structure, wherein a thickness of each body is about 5% to 30% of a pixel pitch thereof (3 of figs 11, 16a and dashed lines of fig 16a).

#### ***Conclusion***

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. U.S. Patents 6479932, 6522072 and Pre-grant Publications 2003/0080682, 2004/0007976, 2004/0027068, 2004/0113556.

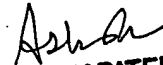
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher M. Raabe whose telephone number is 571-272-8434. The examiner can normally be reached on m-f 7am-3:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on 571-272-2457. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CR

  
**ASHOK PATEL**  
**PRIMARY EXAMINER**